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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

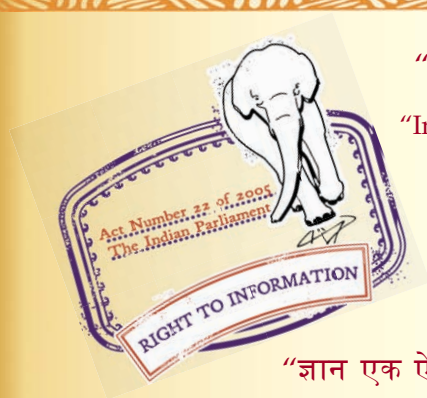
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 198 (1978): Varnish gold size [CHD 20: Paints, Varnishes and Related Products]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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**IS : 198 - 1978**  
( Reaffirmed 2009 )

***Indian Standard***  
**SPECIFICATION FOR**  
**VARNISH, GOLD SIZE**  
**( *First Revision* )**

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**BUREAU OF INDIAN STANDARDS**  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

**AMENDMENT NO. 2   APRIL 2006**  
**TO**  
**IS 198 : 1978   SPECIFICATION FOR**  
**VARNISH, GOLD SIZE**  
*(First Revision)*

*(Page 4, clause 3.1)* — Substitute the following for the existing clause:

**'3.1 Description** — The material shall be clear, transparent and free from foreign matter, sediment and undissolved water when tested in a 25-mm diameter test tube as well as on a glass panel by flow.'

(CHD 20)



AMENDMENT NO. 1    APRIL 1982

TO

IS : 198-1978 SPECIFICATION FOR VARNISH, GOLD SIZE

( *First Revision* )

Alteration

(Page 3, clause 0.3, lines 6 and 7) - Substitute  
'Max 15.0 from Max 25.0' for 'Min 15.0 from Min 25.0'.

(CC 8)

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Reprography Unit, ISI, New Delhi, India

*Indian Standard*  
**SPECIFICATION FOR**  
**VARNISH, GOLD SIZE**  
*( First Revision )*

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( Continued on page 2 )

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( Continued from page 1 )

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( Continued on page 7 )



# *Indian Standard*

## SPECIFICATION FOR VARNISH, GOLD SIZE

### *(First Revision)*

## 0. FOREWORD

**0.1** This Indian Standard ( First Revision ) was adopted by the Indian Standards Institution on 14 July 1978, after the draft finalized by the Paints and Allied Products Sectional Committee had been approved by the Chemical Division Council.

**0.2** This standard was first published in 1952 and was largely based on the interim co-ordinated draft produced with the assistance of the representatives of manufacturers and various departments and authorities of the Government of India, by the Co-ordinating Sub-committee of the No. 5 Standing Committee on Specifications for Paints and Allied Stores of the General Headquarters, India ( now Army Headquarters ).

**0.3** Gold size varnish is used for general purposes and temporary protection of iron and other metal surfaces during storage, as an adhesive for gold leaf and as a component of filling compositions. In this revision which has been prepared based on the recommendations of an *Ad hoc* Panel specially set up for review of published Indian Standards on paints and allied products, the requirement for acid value has been modified to *Min* 15.0 from *Min* 25.0. In view of the latest technological developments the requirement for freedom from rosin has been dropped as it is possible to manufacture the material with the use of rosin based materials without affecting the consumer. An additional requirement for resistance to water has been included. Amendments No. 1 and 2 issued to this standard have also been incorporated in this revision.

**0.4** This standard achieves alignment with JSS 3057 'Specification for varnish, gold size', issued by the Department of Standardization, Ministry of Defence, Government of India.

**0.5** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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\*Rules for rounding off numerical values ( *revised* ).

## 1. SCOPE

**1.1** This standard prescribes requirements and methods of sampling and test for the material commercially known as gold size varnish.

## 2. TERMINOLOGY

**2.1** For the purpose of this standard, the definitions given in IS : 197-1969\* and IS:6667-1972† shall apply.

## 3. REQUIREMENTS

**3.1 Description** — The material shall be clear, transparent and free from foreign matter, sediment and undissolved water.

**3.2 Composition** — The material shall be based on resins, drying oils, driers and thinners in suitable proportions to satisfy the requirements of this standard.

**3.3 Resistance to Water** — The material, when tested as prescribed in **23** of IS : 101-1964‡ shall pass the test.

**3.4** The material shall also comply with the requirements given in Table 1.

## 4. PACKING AND MARKING

**4.1 Packing** — The material shall be packed in tin or galvanized containers or as agreed to between the purchaser and the supplier.

NOTE — The material, when intended for defence purposes, shall be packed and marked in accordance with IS:5661-1970§.

**4.2 Marking** — Each container shall be marked with the following particulars:

- a) Name of the material;
- b) Name of the manufacturer or his recognized trade-mark, if any;
- c) Volume of the material;
- d) Batch No. or lot No. in code or otherwise; and
- e) Month and year of manufacture.

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\*Methods of sampling and test for varnishes and lacquers ( *first revision* ).

†Glossary of terms used in synthetic resin industry.

‡Methods of test for ready mixed paints and enamels ( *second revision* ).

§Code of practice for packing and marking of packages of paints, enamels, varnishes, and allied products.

TABLE 1 REQUIREMENTS FOR VARNISH, GOLD SIZE

( Clause 3.4 )

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST REF TO CL No. IN IS : 197-1969*
(1)	(2)	(3)	(4)
i)	Drying time, <i>Max</i> :		7.2
	a) Surface dry	1 hour	
	b) Hard dry	4 hour	
ii)	Finish	Smooth and glossy	8
iii)	Scratch hardness	No such scratch as to show the bare metal	10
iv)	Flexibility and adhesion	No visible damage or detachment of film when bent over a 6.25 mm rod	11 Method I ( see col 3 )
v)	Flash point, <i>Min</i>	30°C	13
vi)	Volatile matter content, percent by mass, <i>Max</i>	65.0	15
vii)	Viscosity at 30°C	Not less than 0.70 stoke and not more than 1.50 stokes	17
viii)	Acid value, <i>Max</i>	15.0	18
ix)	Keeping properties	Not less than one year	20

\*Methods of sampling and test for varnishes and lacquers ( *first revision* ).

#### 4.2.1 The containers may also be marked with the Standard Mark

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1936 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

4.3 Other details of packing and marking shall be in accordance with the instructions given by the purchaser.

## 5. SAMPLING

**5.1** Representative samples of the material shall be prepared as prescribed under **3** of IS : 197-1969\*.

**5.2 Criteria for Conformity** — A lot shall be declared as conforming to the requirements of this standard if the test results of the composite sample satisfy the requirements prescribed under **3**.

## 6. TEST METHODS

**6.1** Tests shall be conducted as prescribed in IS : 197-1969\* and IS : 101-1964†. Reference to the relevant clauses of IS : 197-1969\* is given in col 4 Table 1 and that of IS : 101-1964† in **3.3**.

**6.2 Quality of Reagents** — Unless specified otherwise, pure chemicals and distilled water ( *see* IS : 1070-1977‡ ) shall be employed in the tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

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\*Methods of sampling and test for varnishes and lacquers ( *first revision* ).

†Methods of sampling and test for ready mixed paints and enamels ( *second revision* ).

‡Specification for water for general laboratory use ( *second revision* ).

( Continued from page 2 )

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